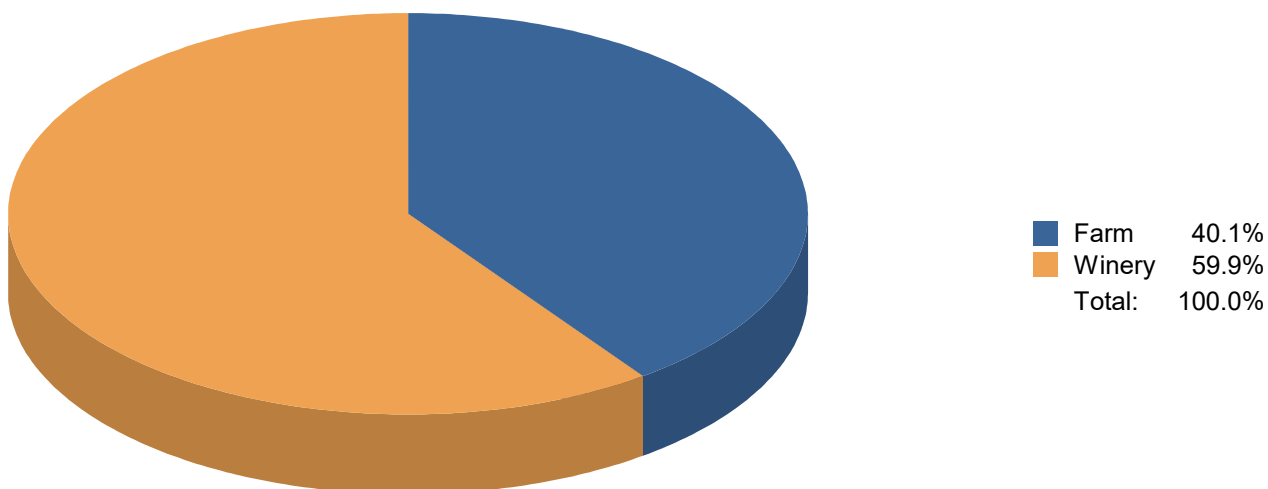


Carbon Calculator Results

Business Name: L'Avenir Wine Estate
Country Name: South Africa
Creation Date: 5/22/2026 9:41:39AM
Data Collection Period: Jan 2025 to Dec 2025
Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View



Boundary	Tonne CO ₂ e	%
Farm	172.55	40.07
Winery	258.09	59.93
Total	430.64	100.00

The Carbon Calculator must be completed on an annual basis. This allows users to monitor their carbon footprint trend and analyse improvements.

Business Name:

L'Avenir Wine Estate

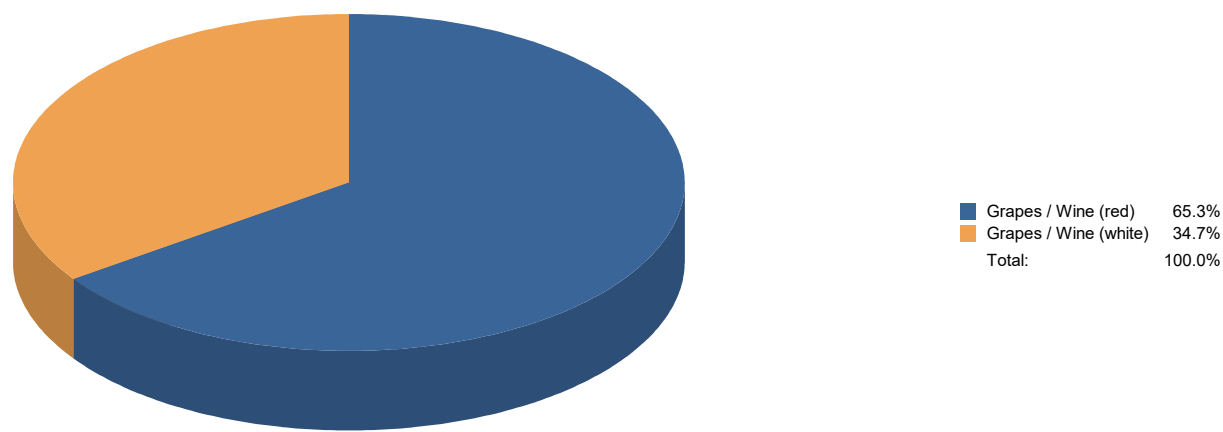
Dataset:

5/22/2026 9:41:39AM

Data Collection Period:

Jan 2025 to Dec 2025

Business Unit - Commodity View



Commodity	Tonne CO ₂ e	%
Grapes / Wine (red)	281.34	65.33
Grapes / Wine (white)	149.30	34.67
Total	430.64	100.00

Business Name:

L'Avenir Wine Estate

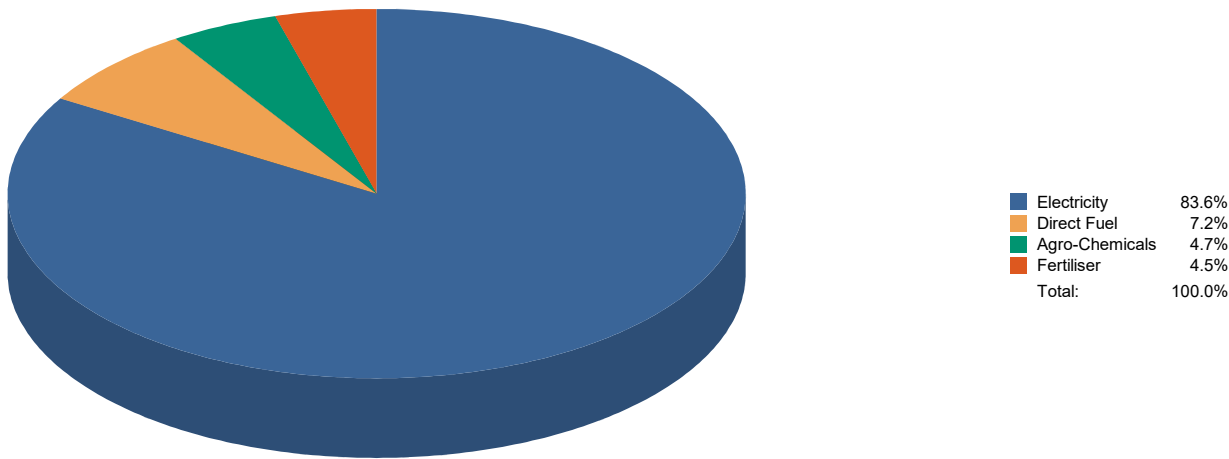
Dataset:

5/22/2026 9:41:39AM

Data Collection Period:

Jan 2025 to Dec 2025

Farm - Emission Source View



Emission Source	Tonne CO ₂ e	%
Electricity	144.27	83.61
Direct Fuel	12.43	7.20
Agro-Chemicals	8.08	4.68
Fertiliser	7.77	4.50
Total	172.55	100.00

Business Name:

L'Avenir Wine Estate

Dataset:

5/22/2026 9:41:39AM

Data Collection Period:

Jan 2025 to Dec 2025

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Grapes / Wine (red)	0.66	The CCC regional average is 0.24 Kg CO2e per Kg Fruit and consist of 104 data points.
Grapes / Wine (white)	0.43	The CCC regional average is 0.26 Kg CO2e per Kg Fruit and consist of 97 data points.

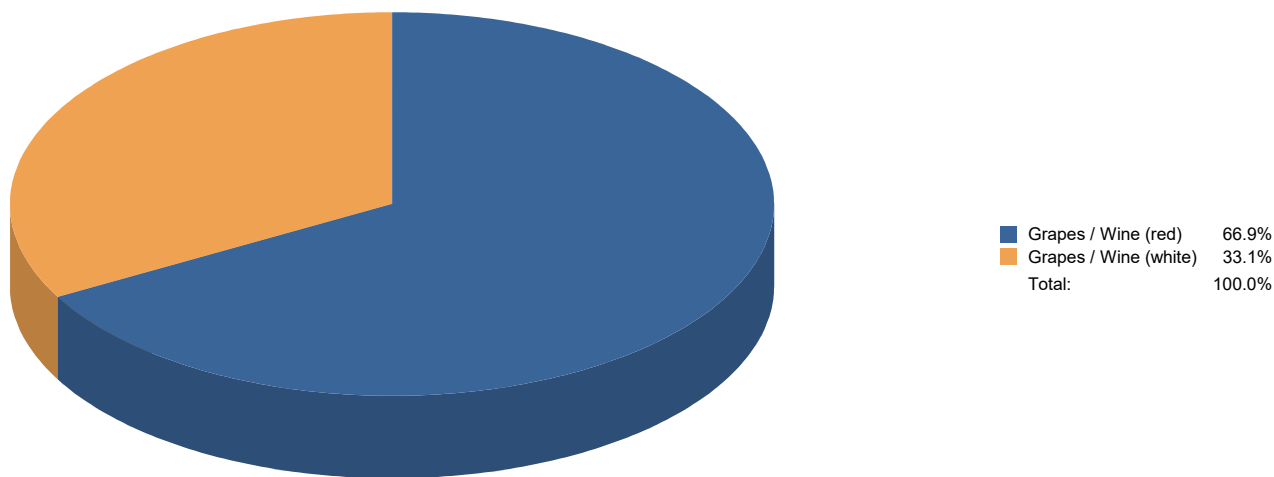
Farm Hectare Breakdown

Commodity	Tonne CO ₂ e per Bearing Ha
Grapes / Wine (red)	5.92
Grapes / Wine (white)	4.31

Farm Scope Breakdown

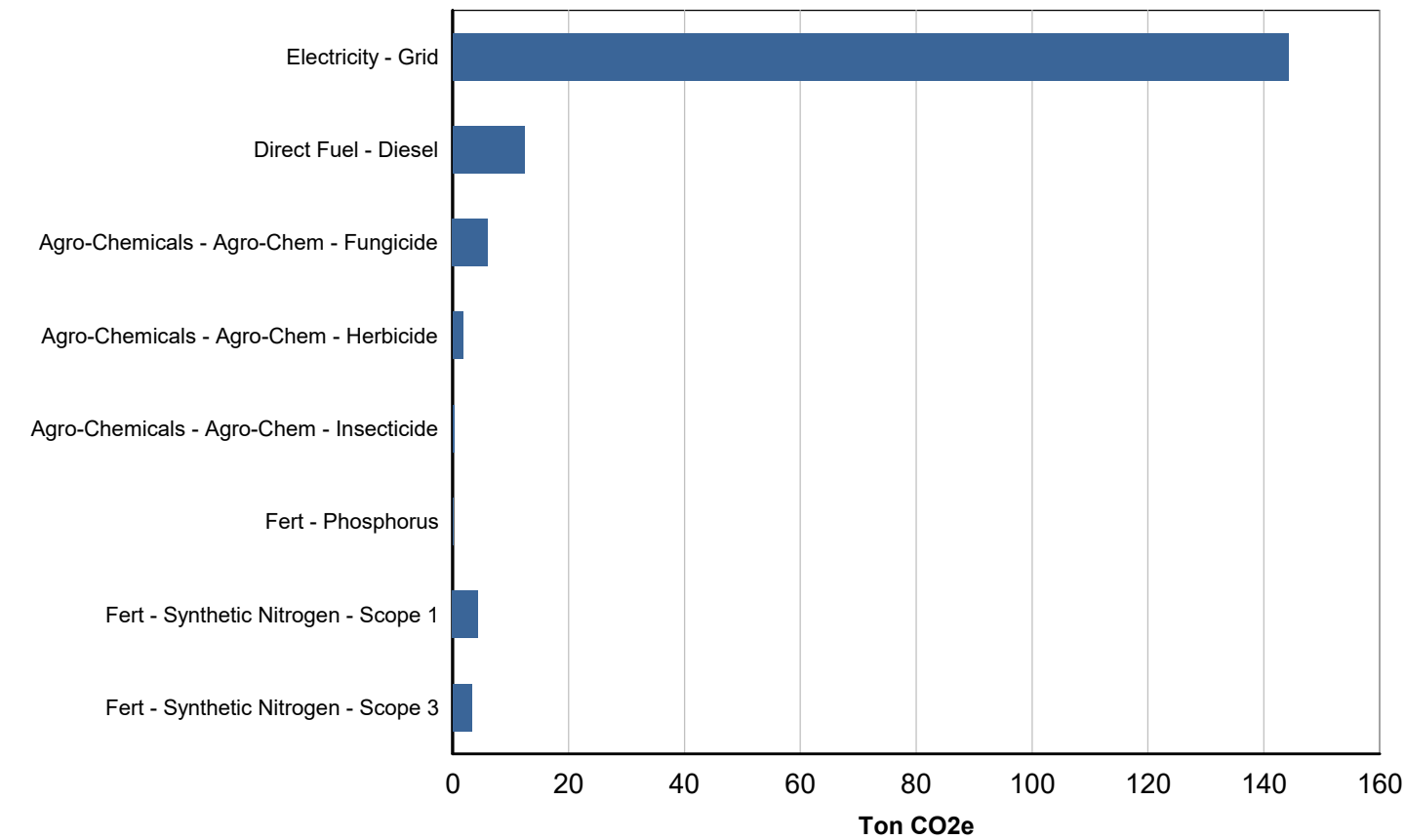
	Tonne CO ₂ e	%
Scope 1	16.80	9.74
Scope 2	144.27	83.61
Scope 3	11.47	6.65
Total	172.55	100.00

Farm - Commodity View



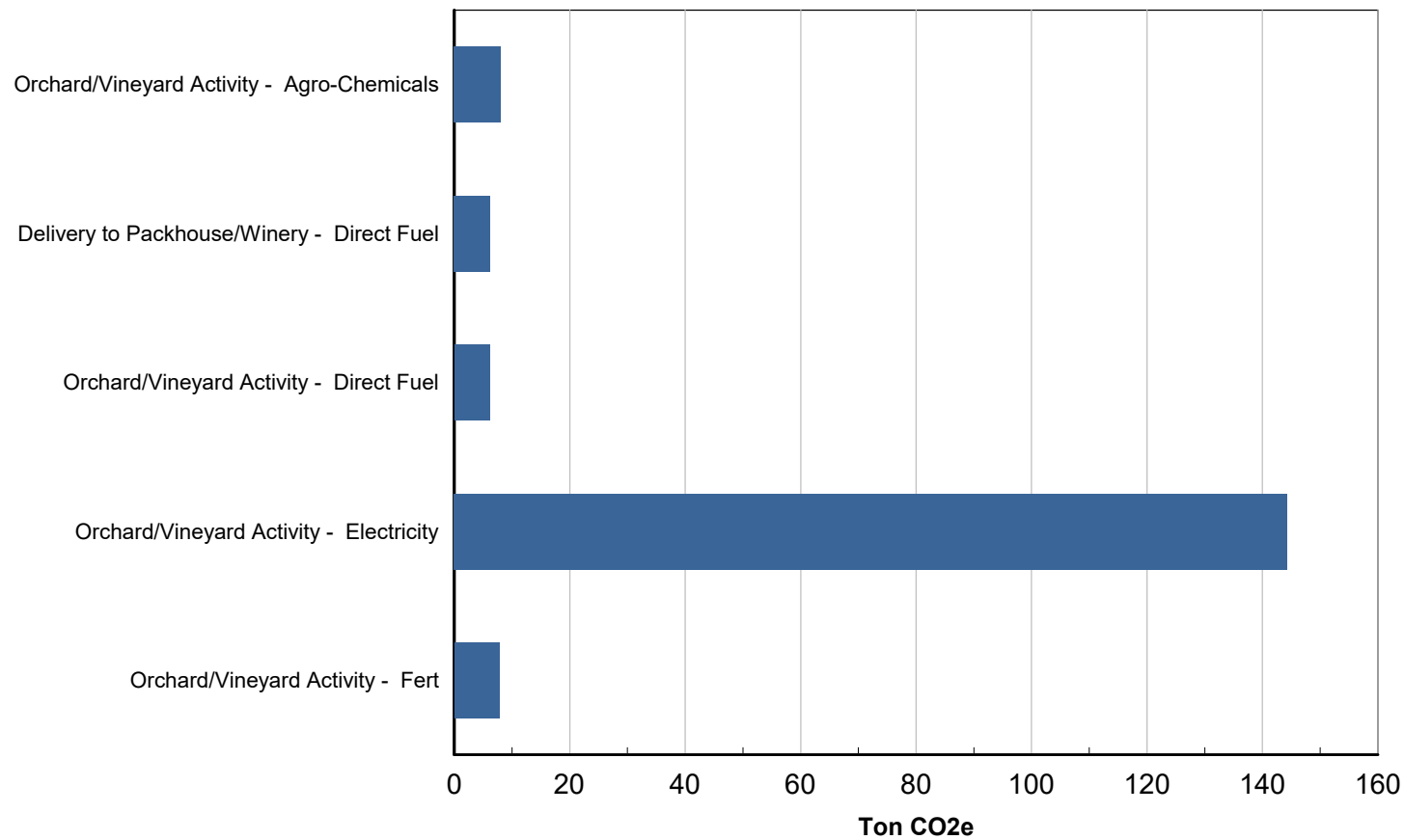
Commodity	Tonne CO ₂ e	%
Grapes / Wine (red)	115.42	66.89
Grapes / Wine (white)	57.13	33.11
Total	172.55	100.00

Farm - Emission Source Breakdown



Emission Source	Tonne CO ₂ e	%
Electricity - Grid	144.27	83.61
Direct Fuel - Diesel	12.43	7.20
Agro-Chemicals - Agro-Chem - Fungicide	6.06	3.51
Agro-Chemicals - Agro-Chem - Herbicide	1.71	0.99
Agro-Chemicals - Agro-Chem - Insecticide	0.31	0.18
Fert - Phosphorus	0.11	0.06
Fert - Synthetic Nitrogen - Scope 1	4.38	2.54
Fert - Synthetic Nitrogen - Scope 3	3.28	1.90
Total	172.55	100.00

Farm - Activity Breakdown



Activity Breakdown	Tonne CO ₂ e	%
Orchard/Vineyard Activity - Agro-Chemicals	8.08	4.68
Delivery to Packhouse/Winery - Direct Fuel	6.23	3.61
Orchard/Vineyard Activity - Direct Fuel	6.20	3.59
Orchard/Vineyard Activity - Electricity	144.27	83.61
Orchard/Vineyard Activity - Fert	7.77	4.50
Total	172.55	100.00

Business Name:

L'Avenir Wine Estate

Dataset:

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Data Collection Period:

Jan 2025 to Dec 2025

Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO ₂ e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	144.27	83.61
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	6.20	3.59
Direct Fuel - Diesel - Delivery to Packhouse/Winery	6.23	3.61
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	7.66	4.44
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	0.11	0.06
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	6.06	3.51
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	0.31	0.18
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	1.71	0.99
Total	172.55	100.00

Business Name: L'Avenir Wine Estate

Dataset: 5/22/2026 9:41:39AM

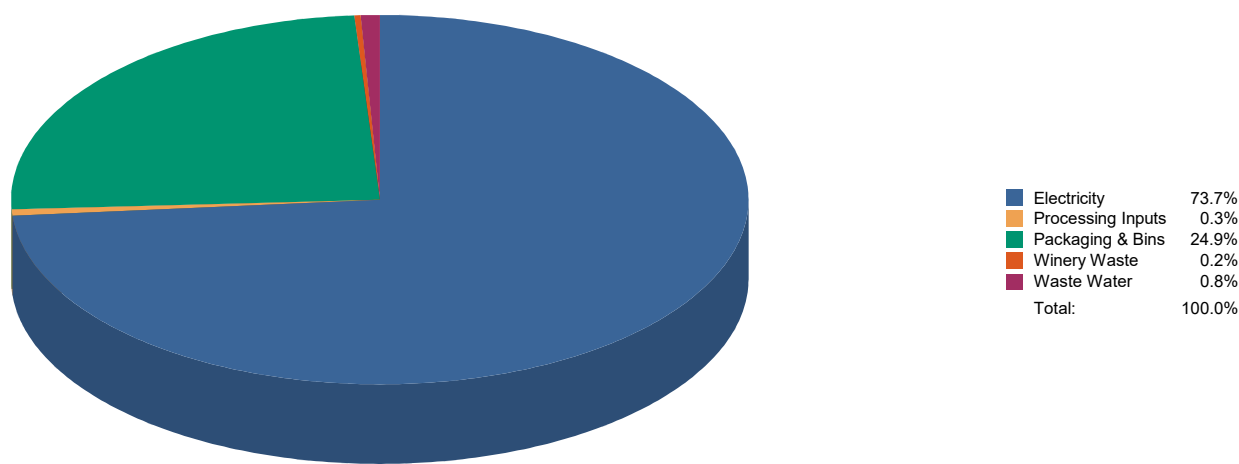
Data Collection Period: Jan 2025 to Dec 2025

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (red)	kL Water per Ton Fruit	150.24	The CCC regional average is 134.68 kL Water per Ton Fruit and consist of 94 data points.
Grapes / Wine (red)	kL Water per Bearing Ha	1,350.00	The CCC regional average is 1217.68 kL Water per Bearing Ha and consist of 94 data points.
Grapes / Wine (red)	kWh Orchard / Vineyard Electricity per Ton Fruit	561.42	The CCC regional average is 103.14 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 94 data points.
Grapes / Wine (red)	kWh Orchard / Vineyard Electricity per Bearing Ha	5,044.71	The CCC regional average is 810.30 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 94 data points.
Grapes / Wine (red)	Liters Orchard / Vineyard Diesel per Ton Fruit	7.14	The CCC regional average is 24.10 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 94 data points.
Grapes / Wine (red)	Liters Orchard / Vineyard Diesel per Bearing Ha	64.17	The CCC regional average is 191.65 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 94 data points.
Grapes / Wine (red)	Kg Pure N per Ton Fruit	1.81	The CCC regional average is 3.15 Kg Pure N per Ton Fruit and consist of 94 data points.
Grapes / Wine (red)	Kg Pure N per Bearing Ha	16.28	The CCC regional average is 26.09 Kg Pure N per Bearing Ha and consist of 94 data points.

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (white)	kL Water per Ton Fruit	128.95	The CCC regional average is 134.37 kL Water per Ton Fruit and consist of 91 data points.
Grapes / Wine (white)	kL Water per Bearing Ha	1,350.00	The CCC regional average is 1018.06 kL Water per Bearing Ha and consist of 91 data points.
Grapes / Wine (white)	kWh Orchard / Vineyard Electricity per Ton Fruit	336.58	The CCC regional average is 151.37 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 91 data points.
Grapes / Wine (white)	kWh Orchard / Vineyard Electricity per Bearing Ha	3,523.70	The CCC regional average is 1018.93 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 91 data points.
Grapes / Wine (white)	Liters Orchard / Vineyard Diesel per Ton Fruit	9.53	The CCC regional average is 32.63 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 91 data points.
Grapes / Wine (white)	Liters Orchard / Vineyard Diesel per Bearing Ha	99.76	The CCC regional average is 219.92 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 91 data points.
Grapes / Wine (white)	Kg Pure N per Ton Fruit	1.55	The CCC regional average is 3.94 Kg Pure N per Ton Fruit and consist of 91 data points.
Grapes / Wine (white)	Kg Pure N per Bearing Ha	16.28	The CCC regional average is 30.94 Kg Pure N per Bearing Ha and consist of 91 data points.

Winery - Emission Source View



Emission Source	Tonne CO ₂ e	%
Electricity	190.34	73.75
Processing Inputs	0.87	0.34
Packaging & Bins	64.29	24.91
Winery Waste	0.43	0.17
Waste Water	2.15	0.83
Total	258.09	100.00

Business Name:

L'Avenir Wine Estate

Dataset:

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Data Collection Period:

Jan 2025 to Dec 2025

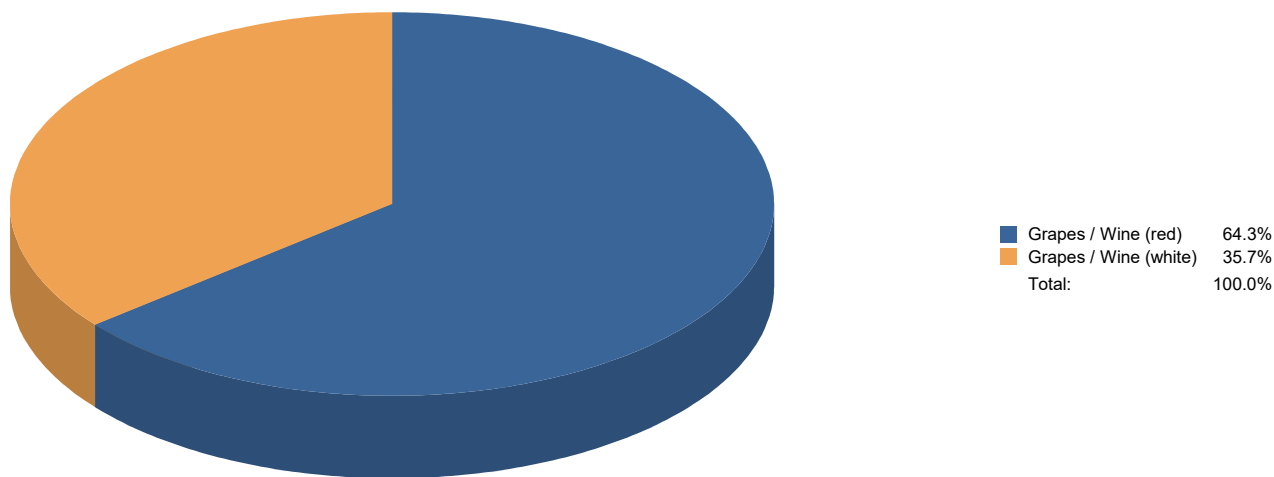
Winery Commodity Benchmark

Commodity	Kg CO2e per L Wine	Benchmark
Grapes / Wine (red) - Bottling	0.93	The CCC regional average is 0.91 Kg CO2e per L Wine and consist of 82 data points.
Grapes / Wine (red) - Processing	0.94	The CCC regional average is 0.52 Kg CO2e per L Wine and consist of 102 data points.
Grapes / Wine (white) - Bottling	1.25	The CCC regional average is 0.84 Kg CO2e per L Wine and consist of 73 data points.
Grapes / Wine (white) - Processing	0.92	The CCC regional average is 0.53 Kg CO2e per L Wine and consist of 89 data points.

Winery Scope Breakdown

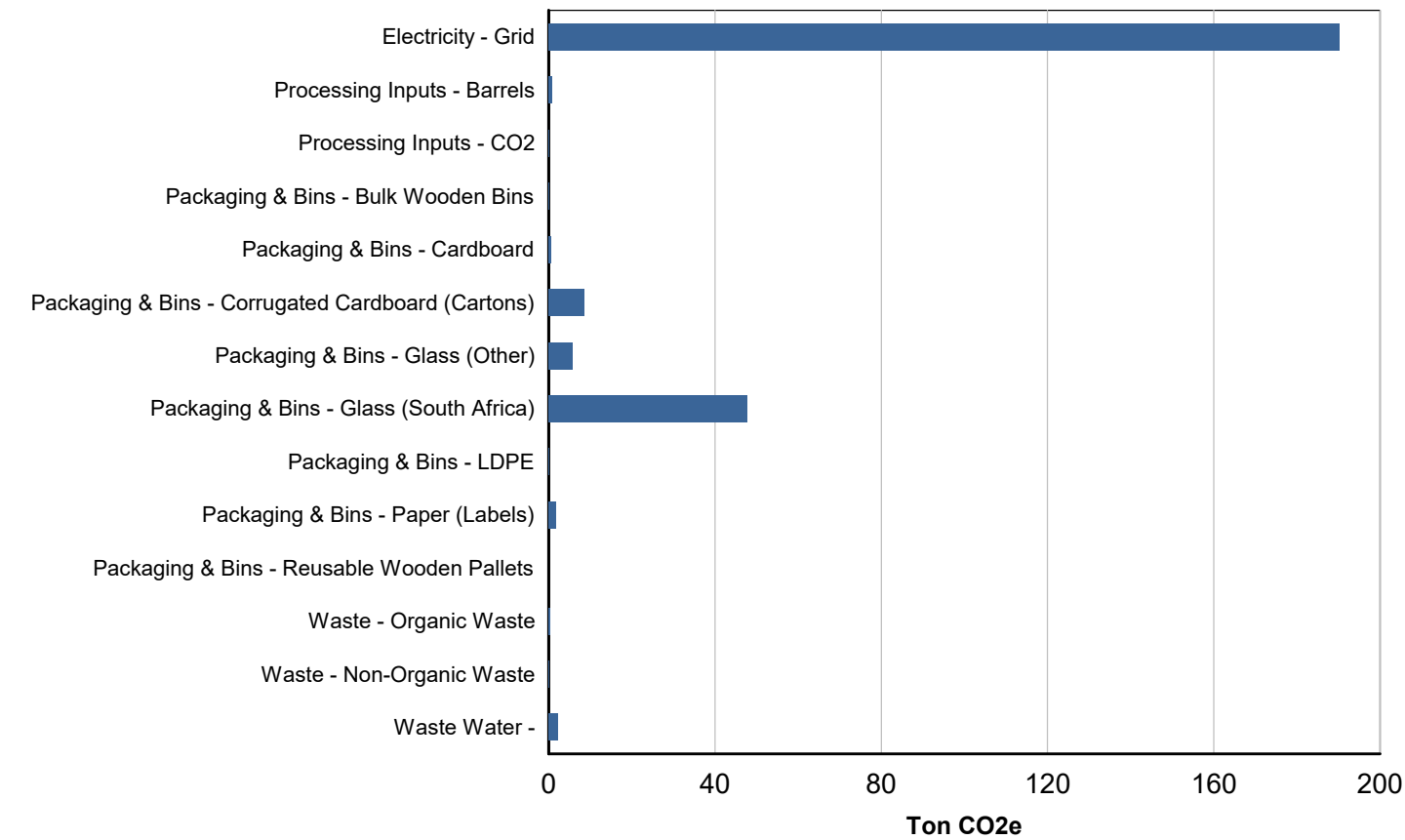
	Tonne CO ₂ e	%
Scope 1	2.55	0.99
Scope 2	190.34	73.75
Scope 3	65.20	25.26
Total	258.09	100.00

Winery - Commodity View



Commodity	Tonne CO ₂ e	%
Grapes / Wine (red)	165.92	64.29
Grapes / Wine (white)	92.17	35.71
Total	258.09	100.00

Winery - Emission Source Breakdown



Emission Source	Tonne CO ₂ e	%
Electricity - Grid	190.34	73.75
Processing Inputs - Barrels	0.78	0.30
Processing Inputs - CO2	0.09	0.03
Packaging & Bins - Bulk Wooden Bins	0.03	0.01
Packaging & Bins - Cardboard	0.48	0.18
Packaging & Bins - Corrugated Cardboard (Cartons)	8.45	3.27
Packaging & Bins - Glass (Other)	5.66	2.19
Packaging & Bins - Glass (South Africa)	47.74	18.50
Packaging & Bins - LDPE	0.20	0.08
Packaging & Bins - Paper (Labels)	1.74	0.67
Packaging & Bins - Reusable Wooden Pallets	0.00	0.00
Waste - Organic Waste	0.30	0.12

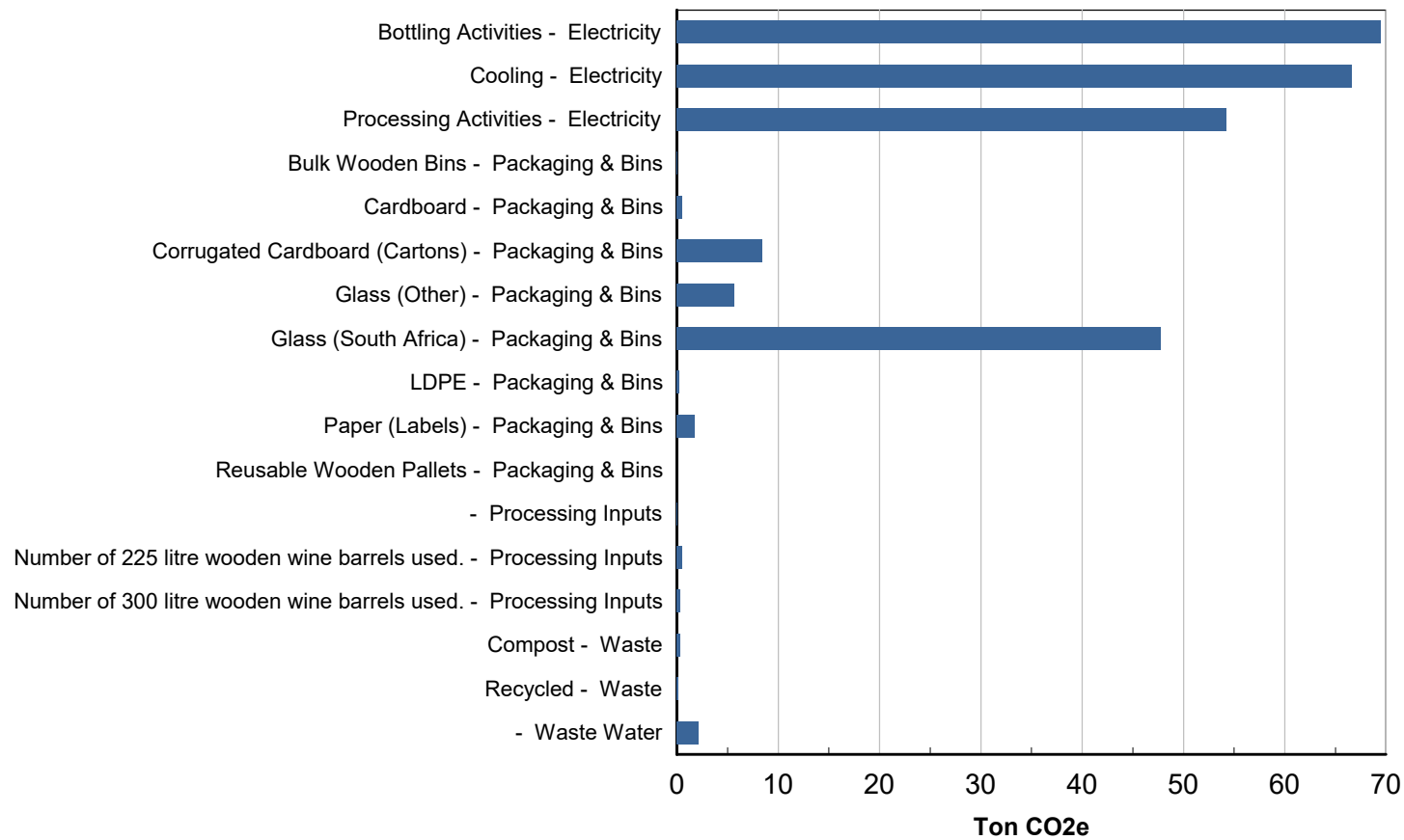
Business Name: L'Avenir Wine Estate

Dataset: 5/22/2026 9:41:39AM

Data Collection Period: Jan 2025 to Dec 2025

Waste - Non-Organic Waste	0.12	0.05
Waste Water -	2.15	0.83
Total	258.09	100.00

Winery - Activity Breakdown



Activity Breakdown	Tonne CO ₂ e	%
Bottling Activities - Electricity	69.47	26.92
Cooling - Electricity	66.62	25.81
Processing Activities - Electricity	54.25	21.02
Bulk Wooden Bins - Packaging & Bins	0.03	0.01
Cardboard - Packaging & Bins	0.48	0.18
Corrugated Cardboard (Cartons) - Packaging & Bins	8.45	3.27
Glass (Other) - Packaging & Bins	5.66	2.19
Glass (South Africa) - Packaging & Bins	47.74	18.50
LDPE - Packaging & Bins	0.20	0.08
Paper (Labels) - Packaging & Bins	1.74	0.67
Reusable Wooden Pallets - Packaging & Bins	0.00	0.00
- Processing Inputs	0.09	0.03
Number of 225 litre wooden wine barrels used. - Processing Inputs	0.50	0.19

Business Name: L'Avenir Wine Estate

Dataset: 5/22/2026 9:41:39AM

Data Collection Period: Jan 2025 to Dec 2025

Number of 300 litre wooden wine barrels used. - Processing Inputs	0.29	0.11
Compost - Waste	0.30	0.12
Recycled - Waste	0.12	0.05
- Waste Water	2.15	0.83
Total	258.09	100.00

Business Name:

L'Avenir Wine Estate

Dataset:

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Data Collection Period:

Jan 2025 to Dec 2025

Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO ₂ e	%
Electricity - Grid - Processing Activities	54.25	21.02
Electricity - Grid - Cooling	66.62	25.81
Electricity - Grid - Bottling Activities	69.47	26.92
Processing Inputs - CO2 -	0.09	0.03
Processing Inputs - Barrels - Number of 225 litre wooden wine barrels used.	0.50	0.19
Processing Inputs - Barrels - Number of 300 litre wooden wine barrels used.	0.29	0.11
Waste - Organic Waste - Compost	0.30	0.12
Waste - Non-Organic Waste - Recycled	0.12	0.05
Waste Water - -	2.15	0.83
Packaging & Bins - Glass (South Africa) - Glass (South Africa)	47.74	18.50
Packaging & Bins - Glass (Other) - Glass (Other)	5.66	2.19
Packaging & Bins - Cardboard - Cardboard	0.48	0.18
Packaging & Bins - Corrugated Cardboard (Cartons) - Corrugated Cardboard (Cartons)	8.45	3.27
Packaging & Bins - Paper (Labels) - Paper (Labels)	1.74	0.67
Packaging & Bins - LDPE - LDPE	0.20	0.08
Packaging & Bins - Bulk Wooden Bins - Bulk Wooden Bins	0.03	0.01
Packaging & Bins - Reusable Wooden Pallets - Reusable Wooden Pallets	0.00	0.00
Total	258.09	100.00

Business Name:

L'Avenir Wine Estate

Dataset:

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Data Collection Period:

Jan 2025 to Dec 2025

Winery Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (red)	Litres Water per Ton Grapes Processed	5,968.37	The CCC regional average is 9800.54 Litres Water per Ton Grapes Processed and consist of 88 data points.
Grapes / Wine (red)	Litres Waste Water per Ton Grapes Processed	5,975.89	The CCC regional average is 3973.66 Litres Waste Water per Ton Grapes Processed and consist of 88 data points.
Grapes / Wine (red)	Processing kWh per Ton Grapes Processed	314.14	The CCC regional average is 240.79 Processing kWh per Ton Grapes Processed and consist of 88 data points.
Grapes / Wine (red)	Cooling kWh per Ton Grapes Processed	383.04	The CCC regional average is 258.16 Cooling kWh per Ton Grapes Processed and consist of 88 data points.
Grapes / Wine (red)	Kg Glass per Liter Wine	0.39	The CCC regional average is 0.74 Kg Glass per Liter Wine and consist of 74 data points.

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (white)	Litres Water per Ton Grapes Processed	5,992.23	The CCC regional average is 5700.14 Litres Water per Ton Grapes Processed and consist of 80 data points.
Grapes / Wine (white)	Litres Waste Water per Ton Grapes Processed	5,975.89	The CCC regional average is 3979.81 Litres Waste Water per Ton Grapes Processed and consist of 80 data points.
Grapes / Wine (white)	Processing kWh per Ton Grapes Processed	307.04	The CCC regional average is 231.90 Processing kWh per Ton Grapes Processed and consist of 80 data points.
Grapes / Wine (white)	Cooling kWh per Ton Grapes Processed	383.04	The CCC regional average is 323.93 Cooling kWh per Ton Grapes Processed and consist of 80 data points.
Grapes / Wine (white)	Kg Glass per Liter Wine	0.74	The CCC regional average is 0.72 Kg Glass per Liter Wine and consist of 69 data points.

Business Name: L'Avenir Wine Estate
Dataset: 5/22/2026 9:41:39AM
Data Collection Period: Jan 2025 to Dec 2025